CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No : CTCE/BBMP/W.No.12/KMR/CSR-05/030d/CEMENT/2016-17 Date: 05.05.2016

TEST REPORT ON CEMENT

*CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
*NAME OF THE WORK	:	Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/407/2014-15 Dated: 31.03.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.05.2016
PERIOD OF TESTING	:	04.05.2016 to 05.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No : CTCE/BBMP/W.No.12/KMR/CSR-05/030d/SAND-Gradation/2016-17 : 05.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. K.M. Ravi** No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
* Name of Work	: Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/407/2014-15 Dated: 31.03.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 04.05.2016
Date of Testing	: 05.05.2016

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.66	90-100	90-100	90-100	95-100
2.36	77.73	60-95	75-100	85-100	95-100
1.18	49.87	30-70	55-90	75-100	90-100
600 Micron	19.32	15-34	35-59	60-79	80-100
300 Micron	8.09	5-20	8-30	12-40	15-50
150 Micron	2.61	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No: CTCE/BBMP/W.No.12/KMR/CSR-05/030d/AGG/GR/2016-17 : 05.05.2016

TEST REPORT ON COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of Work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/407/2014-15 Dated: 31.03.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 04.05.2016

Date of Testing : 05.05.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.44	95-100	85-100
20	35.06	30-70	0-20
10	12.86	10-35	0-5
4.75	1.54	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No: CTCE/BBMP/W.No.12/KMR/STEEL/2016-17 13.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore

Name of the Work : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/407/2014-15 Dated: 31.03.2015

Date of Test : 13.05.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	515	553	13.05	O.K	O.K

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Job No. CTCE/BBMP/W No 12/KMR/STEEL/2016-17 13.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangaloee.

Agency : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

Name of the Work : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/407/2014-15 Dated: 31.03.2015

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Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	517	559	13.20	O.K	O.K

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Job No. CTCE/BBMP/W No 12/KMR/STEEL/2016-17 13.05.2016

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Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. K.M. Ravi
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Reference : EE/DD/WO/407/2014-15 Dated: 31.03.2015

Date of Test : 13.05.2016

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	12	0.89	519	563	13.35	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.12/KMR/CSR-05/030d/CUBE/2016-17 13.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/407/2014-15 Dated: 31.03.2015

*** Sample ID** : Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 13.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.05.2016	13.06.2016	8.120	365.4	16.24
2	16.05.2016	13.06.2016	8.214	375.2	16.68
3	16.05.2016	13.06.2016	8.323	389.6	17.32

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-05/030d/CUBE/2016-17 18.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/407/2014-15 Dated: 31.03.2015

*** Sample ID** : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{30}

Compressive Strength as on : 28th day

Sample Received on : 18.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.05.2016	18.06.2016	8.157	481.7	21.41
2	21.05.2016	18.06.2016	8.264	495.6	22.03
3	21.05.2016	18.06.2016	8.389	511.3	22.72

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-05/03Rd/CUBE/2016-17 24.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
* **Name of the work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
* **Reference** : EE/DD/WO/407/2014-15 Dated: 31.03.2015
* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
* **Grade of Concrete** : M_{30}
Compressive Strength as on : 28th day
Sample Received on : 24.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2016	24.06.2016	8.487	477.5	21.22
2	27.05.2016	24.06.2016	8.329	489.3	21.75
3	27.05.2016	24.06.2016	8.215	498.3	22.15

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-05/03Rd/CUBE/2016-17 25.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* **Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.
* **Name of the work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
* **Reference** : EE/DD/WO/407/2014-15 Dated: 31.03.2015
* **Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
* **Grade of Concrete** : M_{30}
Compressive Strength as on : 28th day
Sample Received on : 25.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.05.2016	25.06.2016	8.485	524.4	23.31
2	28.05.2016	25.06.2016	8.317	514.3	22.86
3	28.05.2016	25.06.2016	8.231	503.5	22.38

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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-05/030d/CUBE/2016-17

27.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K.M. Ravi**
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

*** Name of the work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : EE/DD/WO/407/2014-15 Dated: 31.03.2015

*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 27.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2016	27.06.2016	8.236	473.2	21.03
2	30.05.2016	27.06.2016	8.350	485.7	21.59
3	30.05.2016	27.06.2016	8.412	499.8	22.21

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